

ABSTRACT

A corrector optic is provided, for use in a camera system that includes a thick prism in front of the focal plane. The corrector optic includes preferably two lenses to be aligned on the optical axis of the camera system. When coupled within the camera system, the corrector optic is disposed between the objective lens and the prism. A preferred corrector optic includes a positive lens having a convex surface facing the objective lens and a negative lens having a concave surface facing the prism, such that the lenses together reduce spherical and coma aberrations caused by imaging through the prism. Chromatic aberration is also reduced by choosing the negative lens material to have a higher index of refraction and higher dispersion than those of the positive lens material.

For Patent